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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/771,052	01/26/2001	Veijo Vantinen	324-010115-US(PAR)	7249
7590 Clarence A. Green PERMAN & GREEN, LLP 425 Post Road Fairfield, CT 06430			EXAMINER MEHRPOUR, NAGHMEH	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 04/09/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

09/771,052

**Applicant(s)**

VANTTINEN, VEIJO

**Examiner**

MELODY MEHRPOUR

**Art Unit**

2617

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 March 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1, 3-16, 18, 20-33**, are rejected under 35 U.S.C. 102(e) as being anticipated by Bull et al. (US Publication 2006/0003775 A1).

Regarding claims 1, 18, Bull teaches a method/packet-switched radio system comprising:

a network part of the radio system, which comprises a core network (SGSN, 3G-MSC, GMLC-HLR) (0082) and a radio network connected to the core network (0080) radio UM connection from the radio network to a subscriber terminal (0017, 0080, 0082, 0219); and

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the network part comprising location service means for locating the subscriber

•terminal (0082); and

the subscriber terminal comprises means for transmitting a request message for

location service to the core network via the radio network (0029);

the network part comprises means for performing at least one function required in the-

request message and means for transmitting a response message to the subscriber

terminal via the radio network (0073).

Regarding claims 2, 19, Bull teaches a method/a radio system wherein the request message relates to one of the following location service functions (0029):

determination of the subscriber terminal location, informing of an outside client of the radio system of the subscriber terminal location, transmission of location assistance data to the subscriber terminal (0080, 0082).

transmission of a ciphering key for decrypting the location assistance data to the subscriber terminal (0114-0115).

Regarding claims 3, 20, Bull teaches method/a radio system wherein the information included in the request message comprises desired quality of service of the requested location service (0121-0121, 0216).

Regarding claims 4, 21, Bull teaches a method/a radio system wherein the other information comprises at least one of the following parameters:

receiving power of the serving cell, receiving power of at least one neighboring cell, charge level of the battery in the subscriber terminal, information on the conditions at the location of the subscriber terminal, identity of a separate device connected to the subscriber terminal (0120, 0121, 0270, 0290).

Regarding claims 5, 22, Bull teaches a method/a radio system wherein the subscriber terminal comprises means for inserting at least part of the information included in the request message received by the core network into the request message (0302).

Regarding claims 6, 23, Bull teaches a method/a radio system wherein the radio network comprises means for inserting at least part of the information included in the request message received by the core network into the request message (0302).

Regarding claims 7, 24, Bull teaches a method/a radio system wherein, if the function is location of the subscriber terminal, a special location procedure will be performed (page 2 section 0031). More accurate location information can be obtained through a

differential GPS. In addition to the GPS, any other similar system capable of providing reliable location information can be used for this. There are several other proposals for providing location information that is more accurate than the information that is based on cell coverage area. It is also possible to have a system where several different location service accuracy classes are provided, wherein the method used for the location determination depends of the requested accuracy. For special location procedures, the required accuracy may be indicated e.g. by so called quality of service (QoS) parameters included in a location information request (0066).

Regarding claims 8, 25, Bull teaches a method/a radio system wherein the core network comprises means for locating the subscriber terminal on the basis of the information included in the request message (0073).

Regarding claims 9, 26, Bull teaches a method/a radio system, wherein the procedures required by the location service comprise receiving signals in the subscriber terminal and measuring them, or transmitting signals from the subscriber terminal (0093, 0119, 0139). The power measurement is based on the signal received.

Regarding claims 10, 27, Bull teaches method/a radio system wherein the signals received in the subscriber terminal to implement the location service comprise signals transmitted by the radio system including signals transmitted by other base stations of

the radio system than by that of the serving cell, or the signals transmitted by a satellite of the GPS system (0066).

Regarding claims 11, 28, Bull teaches method/a radio system wherein the network part of the radio system comprises means for checking whether the location Of the subscriber terminal carried out corresponds to the target set for the quality of service (0216).

Regarding claims 12, 29, Bull teaches a method/a radio system wherein, if the target set for the quality of service is not achieved, the network part will perform a location service, which offers a better quality of service (020, 0216). When the multi-path increases, the target quality of service is not achieved.

Regarding claims 13, 30, Bull teaches a method/a radio system wherein tracing of the route traveled by the subscriber terminal is performed so that the subscriber terminal 40 at regular intervals transmits a request message requesting location of the subscriber terminal (0105).

Regarding claims 14, 31, Bull teaches a method/a radio system wherein tracing of the route traveled by the subscriber terminal is performed so that one parameter to be

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added to one location request is a definition of the need to determine the location of the subscriber terminal at regular intervals (0105).

Regarding claims 15, 32, Bull teaches a method/a radio system wherein the outside client of the radio system is informed of the location of the subscriber terminal by the core network, by the subscriber terminal (0073, 0285).

Regarding claims 16, 33, Bull teaches a radio system wherein the response message contains at least one of the following pieces of information: the location of the subscriber terminal, location assistance data, a ciphering key for decrypting the ion assistance data, an error code, information on whether location information on the subscriber terminal is to be submitted to an outside client (0080, 0114, 0115).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.



3. **Claims 17, 34**, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bull et al. (US Patent Number 2006/0003775 A1) in view of Korpela (US Patent Number 6,311,055).

Regarding claims 17, 34, Bull fails to teach a method/a radio system wherein the request message and the response message are messages of protocol layers that correspond to the third layer of the OSI model. However Korpela teaches wherein the mobile of third generation known by universal mobile telecommunications system (UMTS) transferred amount of data most preferably in the radio resource control (LLC) of layer 3 structure according to International Standardization Organization (OSI) (col 4 lines 11-17, lines 32-36). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the above teaching of Korpela with Bull, in order to determine whether the identified mobile is still connected to the voice channel of the system for the purpose of detecting fraud. In order to determine a bill which is proportional to the transformed amount of payload data.

#### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1-34 have been considered but are moot in view of the new ground(s) of rejection.

**Conclusion**

**5. Any responses to this action should be mailed to:**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 703-308-7159. The examiner can normally be reached on 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold be reached (703) 305-4379.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Naghmeh Mehrpour/

Primary Examiner, Art Unit 2617

April 7, 2008